

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>PR0031PCT</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/US 03/ 03563</b>	International filing date (day/month/year) <b>05/02/2003</b>	(Earliest) Priority Date (day/month/year) <b>08/02/2002</b>
Applicant <b>E. I. DU PONT DE NEMOURS AND COMPANY</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☒ because this figure better characterizes the invention.

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☐ None of the figures.

## Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

This invention relates to a slot die for forming a coating. More particularly, this invention relates to a die comprising a first plate(46) having a first lip(47), a first location(48), and a second location(49) where the first location(48) is between the second location(49) and the first lip(47), a second plate(51) having a second lip(52), a third location(53,) and a fourth location(54) where the third location(53) is between the fourth location(54) and the second lip(52) the second location(49) of the first plate(46) being a distance away from the fourth location(54) of the second plate(51); and a shim(56) having a top seat(57) and a bottom seat(58); the top seat(57) of the shim(56) contacting the first plate(46) at the first location(48) and the bottom seat(58) of the shim(56) contacting the second plate(51) at the third location(53), so as to form a slot(61) in the die(45) which terminates at an orifice(62) and is bounded at the orifice by the first(47) and second lips(52), the first(47) and second lips(52) having a gap there between, the gap having a size(G1); a means for adjustably

connecting the first plate(46) to the second plate(51) at the second location(49) and the fourth location(54) such that the size of the gap(G1) between the first(47) and second lips(52) is adjustable by adjusting the distance between the second location(49) of the first plate(46) and the fourth location(54) of the second plate(51).

# INTERNATIONAL SEARCH REPORT

ational Application No

PCT/US 03/03563

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 B29C47/16

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B29C B05C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 241 183 A (TYRNER JOSEPH M) 22 March 1966 (1966-03-22) column 3, line 66 -column 4, line 35 figures 1-3	1,4
Y	EP 0 662 386 A (MINNESOTA MINING & MFG) 12 July 1995 (1995-07-12) cited in the application column 8, line 32 -column 9, line 28 figure 4	1,4
Y	WO 00 50215 A (PROCTER & GAMBLE) 31 August 2000 (2000-08-31) page 24, line 22 -page 25, line 18 figures 1,3,17	1,4

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

13 June 2003

Date of mailing of the international search report

23/06/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Jensen, K

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 03/03563

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 032 284 A (ONGHENA JOZEF JAN ET AL) 28 June 1977 (1977-06-28) the whole document ---	2,3,5
A	US 5 587 184 A (LEONARD WILLIAM K ET AL) 24 December 1996 (1996-12-24) cited in the application the whole document figure 4 ---	1,4
A	DE 537 488 C (MAURER ALFRED) 4 November 1931 (1931-11-04) the whole document -----	1,4

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/03563

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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